Mustafa Kamal

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EDUCATION

NORTH SOUTH UNIVERSITY,
Bangladesh
BS IN COMPUTER SCIENCE AND ENGINEERING
Major. GPA: 3.58/ 4.0
Cum. GPA: 3.04/ 4.0

LINKS

Hackerrank: **mosszhd**
Github: **mosszhd**
LinkedIn: **mosszhd**

COURSEWORK

UNDERGRADUATE
Machine Learning
Deep Learning
Software Engineering
SQL
Algorithms
Data Structures
OOP

CERTIFICATIONS
Coursera:

- Neural Networks and Deep Learning**(Link)**
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization**(Link)**

Hackerrank:

- Hackerrank: Python (Basic) Certificate**(Link)**

SKILLS

PROGRAMMING
Comfortable:
C++ • Python • Flask • MySQL • C • ElasticSearch • PyTorch • Scikit-learn
Familiar:
• CSS • Assembly • JavaScript • Java • Django

TOOLS AND DEVICE
PostMan • Linux • Git • GitBash • VsCode • Latex • Jeson Nano

EXPERIENCE

CPSD TECHNOLOGIES LTD | JUNIOR DEEP LEARNING ENGINEER
Mar 2022 - Present | Dhaka, Bangladesh

- Developed facial recognition API.
- Deployed facial recognition API on Azure virtual machine.
- Implemented SOTA face recognition and detection model.
- Optimized and improved perfomance of deep learning model to run on low-end device.
- Deployed the whole facial recognition system on production.
- Responsible for writing technical documentation

PROJECTS

SEARCH ENGINE | TOOLS: ELASTICSEARCH, PHP, JAVASCRIPT, HTML, CSS(Project-Link)

- Created a scraper that can scrape thorough websites recursively.
- Implemented Elasticsearch to index data.
- Implemented functionalities to perform full-text search and analyze text.
- Wrote a custom analyzer to perform text analysis on documents.

POTH DEKHAN | TOOLS: ELASTICSEARCH, JAVASCRIPT, LEAFLET, DJANGO,HTML,CSS,BOOTSTRAP (Project-Link)

- Created a map using Leaflet.
- Added voice search feature.
- Implemented leaflet routing machine.
- Wrote a scraper to scrape location attributes.
- Implemented Elasticsearch to index addresses.
- Wrote a custom analyzer to perform text analysis on documents.
- Created a pipeline to index data from CSV file to Elasticsearch.

CURRICULAR-SINCNET | TOOLS: PYTHON, PYTORCH (Project-Link)

- Implemented several loss functions.
- Created several pipelines to train model with different dataset.
- Applied techniques such as contrastive learning,additive margin to increase model perfomance.
- Wrote scripts to perform inter-dataset and inter-language evaluation.
- Wrote dataloader to increase model performance.
- Increased accuracy on both inter-dataset and inter-language dataset than previous state-of-the-art.

PUBLICATIONS

(Paper-Link)

[1] L. Chowdhury, M. Kamal, N. Hasan, and N. Mohammed. Curricular sincnet: Towards robust deep speaker recognition by emphasizing hard samples in latent space. *BIOSIG*, 2021.